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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/214,865	01/14/1999	YOSHIHIKO TAKISHITA	Q52837	8105
7590 06/06/2005 SUGHRUE MION ZINN MACPEAK & SEAS 2100 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20037			EXAMINER KIM, PAUL L	
			ART UNIT 2857	PAPER NUMBER

DATE MAILED: 06/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/214,865	TAKISHITA, YOSHIHIKO	
	Examiner	Art Unit	
	Paul Kim	2857	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-7,9-15 and 46-54 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-7,9-15 and 46-54 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 3, 11, 14, 49, 50, 53, and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barron et al in view of Wood et al and Kanda et al.

With regard to claims 1 and 11, Barron et al teaches an ultrasonic inspection system that determines whether a sample contains a defect (abstract) comprising a computer (fig. 1, part B), and a data storage section (fig. 1, part D). Barron et al, however, does not specify a plurality of the inspection systems interconnected. Wood et al teaches multiple ultrasonic system (figs. 15-17) containing a probe (fig. 1, part 12 & fig. 15), host computer (fig. 1, part 100 & fig. 15, parts 234 & 242), a data storage section for the host computer (col. 13, lines 35-40), a data storage section for each probe (fig. 2, part 24), and a display (fig. 1, part 26). Because Wood et al and Barron et al are both within the art of specimen inspection by ultrasonic means and since connecting a series of inspection systems to a network is well known in the art, it would have been obvious to one of ordinary skill in the art at the time of the invention, to modify Barron et al, so that a plurality of inspections systems is networked together, as

taught by Wood et al, so as to receive the benefits of convenience and cost savings by a centralized information collector.

Barron et al also does not teach comparing the average reception level with a predetermined reception level value. Kanda et al teaches an ultrasonic diagnostic system that compares an average value of reception signals with a predetermined value (col. 33, lines 7-13). Since Barron et al and Kanda et al are both within the art of inspecting a specimen by ultrasonic diagnosis, it would have been obvious to one of ordinary skill in the art at the time of the invention, to modify Barron et al, so that reception levels are compared with a threshold value, as taught by Kanda et al, so as to receive the benefit of accurate diagnosis in order to improve productivity of the testing apparatus.

With regard to claim 3, Barron et al teaches the inspection system comprising a determination means (col. 4, lines 40-50).

With regard to claim 14, Barron et al teaches a probe data reception means for receiving data of the probe (fig. 1, part F).

With regard to claims 49 and 54, Barron et al teaches the system comprising a display section (fig. 1, part C).

With regard to claim 50, Barron et al teaches the system having a data management function and the ultrasonic probe being provided with a storage device for storing characteristic data (fig. 1, parts A & D).

With regard to claim 53, Barron et al teaches the data management function comprising a storage section for storing data (fig. 1, part D).

3. Claims 4-7, 46-48, 51, and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barron et al in view of Wood et al and Kanda et al, further in view of Lather et al.

Barron et al, as modified above, does not teach the ultrasonic inspection system comprising of a probe test. Lather et al teaches an automatic self-checking of test equipment consisting of a probe comprising a T/R circuit (fig. 1, part 4), waveform-processing circuit (fig. 1, part 6), data storage for storing probe data (fig. 4, parts 6 and 19), and control section (fig. 1, part 8). Lather et al teaches opposing the probe to a test object (fig. 1, part 1), collecting data from the T/R circuit when probe is excited (col. 2, lines 5-10), disconnecting the probe from the T/R circuit and collecting a second data (col. 1, lines 58+), and determining whether the probe is abnormal based on the tests (col. 2, lines 25-34). Since Barron et al, as modified above, and Lather et al are both within the art of operating ultrasonic data-collecting equipment, and because Lather et al teaches the benefits of probe self-test, it would have been obvious to one of ordinary skill in the art at the time of the invention, to modify Barron et al, as modified above, so that the inspection system includes a probe test means, as suggested by Lather et al, so as to receive the benefits of saving system down-time and improving data accuracy.

4. Claims 9, 10, 12, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barron et al in view of Wood et al and Kanda et al, further in of La Pierre.

Barron et al, as modified above, does not specify the inspection system having a change comparison means. La Pierre teaches a method of analyzing trend data of an engine in which difference between the most recent data and the preceding data is compared to a threshold (fig. 1, step 16 & col. 1, lines 45+). Since Barron et al and La Pierre are both within the art of defect inspection, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify Barron et al, so that a change comparison means is included, as taught by La Pierre, so as to receive the benefit of enhanced data accuracy.

5. Claim 15 rejected under 35 U.S.C. 103(a) as being unpatentable over Barron et al in view of Wood et al and Senba.

Barron et al teaches an ultrasonic inspection system that determines whether a sample contains a defect (abstract) comprising a computer (fig. 1, part B), and a data storage section (fig. 1, part D). Barron et al, however, does not specify a plurality of the inspection systems interconnected. Wood et al teaches multiple ultrasonic system (figs. 15-17) containing a probe (fig. 1, part 12 & fig. 15), host computer (fig. 1, part 100 & fig. 15, parts 234 & 242), a data storage section for the host computer (col. 13, lines 35-40), a data storage section for each probe (fig. 2, part 24), and a display (fig. 1, part 26). Because Wood et al and Barron et al are both within the art of specimen inspection by ultrasonic means and since connecting a series of inspection systems to a network is well known in the art, it would have been obvious to one of ordinary skill in the art at the time of the invention, to modify Barron et al, so that a plurality of inspections systems is

networked together, as taught by Wood et al, so as to receive the benefits of convenience and cost savings by a centralized information collector.

Barron et al also does not teach the data being predetermined data in components making up the system body. Senba, as best can be determined by the reference, teaches an inspection system that include component data reception means for receiving predetermined component data (abstract). Because Barron et al and Senba are both within the art of specimen inspection, it would have been obvious to one of ordinary skill in the art at the time of the invention, to modify Barron et al, so that the ultrasonic inspection system receives data in components making up the system body, as taught by Senba, in order to minimize breakdowns and improve reliability.

Response to Arguments

6. Applicant's arguments with respect to claims 1, 3-7, 9-15, and 46-54 have been considered but are moot in view of the new ground(s) of rejection.

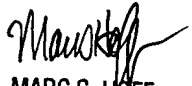
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Kim whose telephone number is 571-272-2217. The examiner can normally be reached on Monday-Thursday 10:00-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Hoff can be reached on 571-272-2216. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and for After Final communications.

Art Unit: 2857

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

PK
May 27, 2005


MARC S. HOFF
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800